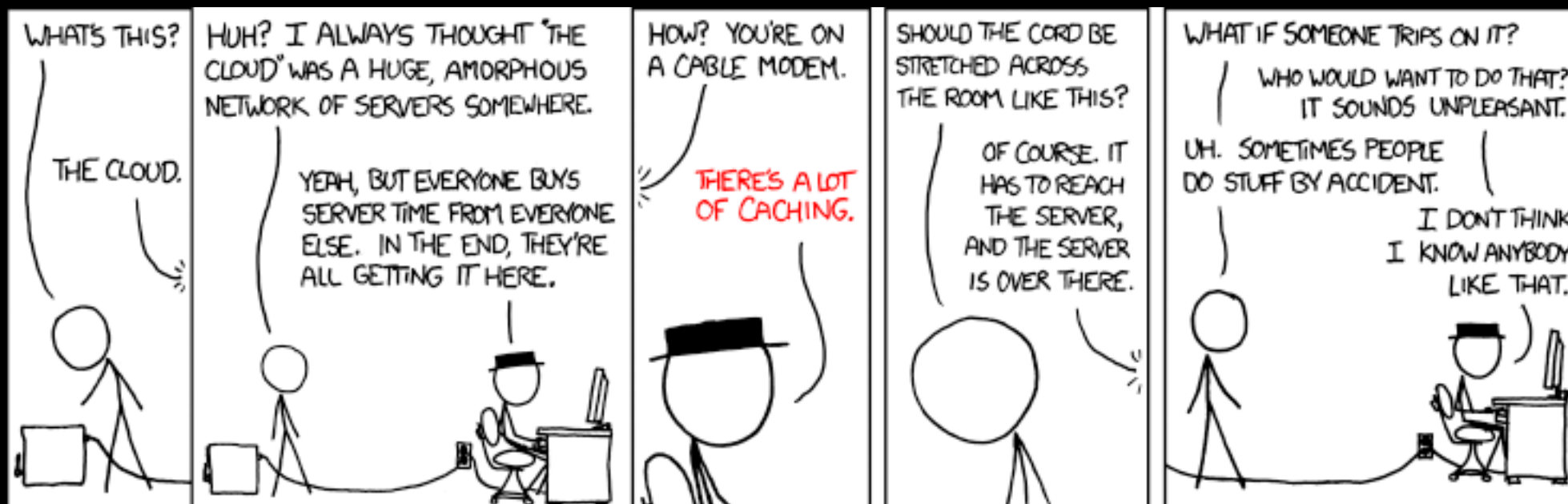


# Doing things once



# Many explicit levels

```
function memoize(f)
  let d = Dict()
  return function(args...)
    return get!(() -> f(args...), d, args)
  end
end
end
```

```
const add = memoize(+)
const printonce = memoize(println)
```